



## RAW SEQUENCE LISTING

PATENT APPLICATION: PCT/US02/36692

DATE: 12/11/02

TIME: 14:17:14

Input Seq : A:\SEQUENCE.txt

Output Seq : N:\CRF4\12022002\PU36692.raw

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66 Arg Asn Val Ile Arg Ile Cys Gly Val Cys Gly Asp Arg Ala Thr Gly
67 20 25 30
68 ttt cac ttc aat att atg aat ttt gaa ggc tgc aaa ggc ttc ttc aat 184
69 Phe His Phe Asn Ala Met Thr Cys Glu Gly Cys Lys Gly Phe Phe Arg
70 35 40 45
72 cga agc atg aag cgg aag gaa cta ttc aat tgc cgc ttc aac ggc aac
73 Arg Ser Met Lys Arg Lys Ala Leu Phe Thr Cys Pro Phe Asn Gly Asp
74 50 55 60 65
76 tgc cgc atc aac aag gat aac cga cgc aac tgc aac gcc tgc cgc ctc
77 Cys Arg Ile Thr Lys Asp Asn Arg Arg His Cys Gln Ala Cys Arg Leu
78 70 75 80
80 aaa cgc tct atg aac atc ggc atg atg aag gag ttc att ctg aca gat 406
81 Lys Arg Cys Val Asp Ile Gly Met Met Lys Glu Phe Ile Leu Thr Asp
82 85 90 95
84 gag gaa gtg cag aag aag cgg gag atg atc ctg aag cgg aag gag gag 454
85 Glu Glu Val Gln Arg Lys Arg Glu Met Ile Leu Lys Arg Lys Glu Glu
86 100 105 110
88 gag gcc ttc aag aac agt ctg cgg ccc aag ctg tct gag gag cag aac 502
89 Glu Ala Leu Lys Asp Ser Leu Arg Pro Lys Leu Ser Glu Glu Gln Gln
90 115 120 125
92 cgc atc att gcc ata ctg ctg aac gcc aac cat aag acc tac aac ccc 550
93 Arg Ile Ile Ala Ile Leu Leu Asp Ala His His Lys Thr Tyr Asp Pro
94 130 135 140 145
96 acc tac tcc aac ttc tgc aag ttc cgg cct cca gtt cgt ctg aat gat 598
97 Thr Tyr Ser Asp Phe Cys Gln Phe Arg Pro Pro Val Arg Val Asn Asp
98 150 155 160
100 ggt gga ggc aac cat att tcc agg ccc aac tcc aga aac aat ccc aat 646
101 Gly Gly Gly Ser His Pro Ser Arg Pro Asn Ser Arg His Thr Pro Ser
102 165 170 175
104 ttc tct ggc aac tcc tcc tcc tcc tgc tca gat aac tgt atc acc tct 694
105 Phe Ser Gly Asp Ser Ser Ser Ser Cys Ser Asp His Cys Ile Thr Ser
106 180 185 190
108 tca gac atg atg aac tgc tcc agc ttc tcc aat ctg gat ctg agt gaa 742
109 Ser Asp Met Met Asp Ser Ser Ser Phe Ser Asn Leu Asp Leu Ser Glu
110 195 200 205
112 gaa gat tca gat aac cct tct gtg aac cta gag ctg tcc aag ctg tcc 790
113 Glu Asp Ser Asp Asp Pro Ser Val Thr Leu Glu Leu Ser Gln Leu Ser
114 210 215 220 225
116 atg ctg ccc aac ctg gct aac ctg gtc agt tac aac atc caa aag ctg 838
117 Met Leu Pro His Leu Ala Asp Leu Val Ser Tyr Ser Ile Gln Lys Val
118 230 235 240
120 att gcc ttt gct aag atc ata cca cga ttc aga aac ctg acc tct aag 886
121 Ile Gly Phe Ala Lys Met Ile Pro Gly Phe Arg Asp Leu Thr Ser Glu
122 245 250 255
124 aac aac atc gta cta ctg aac tca agt gcc att aac ctg atc atg ttc 934
125 Asp Gln Ile Val Leu Leu Lys Ser Ser Ala Ile Glu Val Ile Met Leu
126 260 265 270
128 cgc tcc aat aag tcc ttc att arg aac aac atc tcc tcc aat ttc att 982
129 Arg Ser Asn Glu Ser Phe Thr Met Asp Asp Met Pro Trp Thr Cys Gly

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: PCT/US02/36692

DATE: 11/12/2002

TIME: 14:17:58

Input File : A:\SEQUENCE.txt

Output File : N:\CRF4\12022002\PU36692.raw

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132      285      290      295      300
132 aac aac aat tat aac tat tgc gtc agt gat ctg aac aac gcc gga cac      1010
133 Asn Gln Asp Tyr Lys Tyr Arg Val Ser Asp Val Thr Lys Ala Gly His
134 290      295      300      305
134 aac ctg aac ctg att gag aac ctg atc aag ttc gag ctg gga ctg aag      1078
135 Ser Leu Ala Leu Ile Glu Pro Leu Ile Lys Phe Gln Val Gly Leu Lys
136      310      315      320
136 aag ctg aac ttc tat gac gag gag cat gtc ctg ctg atg aac atc tgc      1126
137 Lys Leu Asn Leu His Glu Glu Glu His Val Leu Leu Met Ala Ile Cys
138      325      330      335
138 atc gtc ttc aac cat cgt cct ggg ctg cag gac aac aag ctg att gag      1174
139 Ile Val Ser Pro Asp Arg Pro Gly Val Gln Asp Ala Ala Leu Ile Glu
140      340      345      350
140 gcc atc cag gac cgc ctg tcc aac aca ctg cag aac tac atc cgc tgc      1222
141 Ala Ile Gln Asp Arg Leu Ser Asn Thr Leu Gln Thr Tyr Ile Arg Cys
142      355      360      365
142 cgc cac ccg ccg ccg ggc agc cac ctg ctg tat gcc aag atg atc cag      1270
143 Arg His Pro Pro Pro Gly Ser His Leu Leu Tyr Ala Lys Met Ile Gln
144      370      375      380      385
144 aag cta gcc gat ctg cgc agc ctg aat gag gag cac tcc aag cag tac      1318
145 Lys Leu Ala Asp Leu Arg Ser Leu Asn Glu Glu His Ser Lys Gln Tyr
146      390      395      400
146 cgc tgc ctg ttc ctg cag cat gag tgc agc atg aag cta acc ccg ctt      1366
147 Arg Cys Leu Ser Phe Gln Pro Glu Cys Ser Met Lys Leu Thr Pro Leu
148      405      410      415
148 gtg ctg gaa ctg ttc ggc aat gag atc tcc tga ctaggacagc ctgtcgggtg      1419
149 Val Leu Glu Val Phe Gly Asn Glu Ile Ser
150      420      425
150 cctgggtggg cctctctc cagggccacg tgcagggcc ggggtgggc gctactcagc      1479
151 agccctctc aacctctg ggttcagccc ctctctgccc acctcccta tccaccagc      1539
152 ccattctctc tctgtccaa cctaaccctt tctctggggg ctctccccc gtccttgag      1599
153 acctcagcca tgaggagttg ctgtttgttt gacaaagaaa cccaagtggg gccagagggc      1659
154 agaggttgga ggcaggcctt gccagagat gctccacag ctgcttaagt ggtctgagc      1719
155 tgatgttgag cgaacagaca ggagaaatgc atccattctt cagggaraga gacactgca      1779
156 cctccccca ctgaggccc cgtttgtcca gggctagtg ggtctccct ctctgctt      1839
157 acctcagata aataatgggc ccacagctcc caccaccac ccttcagtgc ccaccaacat      1899
158 cccattgccc tggatatatt ctacaggcca gtagctgtgg tgaggtgggt ttctctcca      1959
159 tcactggagc accaggcacg aaccacctg ctgagagacc caaggaggaa aaacagacaa      2019
160 aaccagctc acagaagaat atgacagctg tccctgtcac caagctcaca gtctctgcc      2079
161 ctgggtctaa ggggttggtt gagggtgaag cctctctcc aaggatccat gtagcaggc      2139
162 tgaattgtcc ccaatttgc gaaaagcacc tgcgaactc gtcctcccc tgcagtgcc      2199
163 ttacctctc ccaggagac ccagccctcc ctgtctctct cccatcacg agagtaccc      2259
164 agaccctct ccccccaccc ctccccagg gagaggctct ggagaagcag tgagcccat      2319
165 ctctctctc tggagagtg ggaaggagga caaacaattt cagaccacac cccctcagtc      2379
166 atgatctccc tggagctca atgtggttga aagaccctc tccaccacag agctaaagc      2439
167 taggttgccg tggagagaa tatgggaagg gaggagggg cagtctggg tgctatcca      2499
168 gacacagtat ttggggttc cgtgatga : ttaaggttc ctctctctc tctctcctc      2559
169 aaccacaact caaaatgpc ctgagggg : gggggg : atacaaactt caatgagat :      2619
170 ctctctgca : tttttt : tttttt : ctgtctctt actccat :      2679

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## RAW SEQUENCE LISTING

PATENT APPLICATION: PCT/US02/36692

DATE: 11/01/2002

TIME: 15:17:58

Input File : A:\SEQUENCE.txt

Output File : N:\CRF4\12022002\PU36692.raw

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188 ggggtttttt ggggtttttt ggggtttttt ggggtttttt ggggtttttt ggggtttttt ggggtttttt 2739
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191 ggggtttttt ggggtttttt ggggtttttt ggggtttttt ggggtttttt ggggtttttt ggggtttttt 2859
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223 <211> LENGTH: 21
224 <212> TYPE: DNA
225 <213> ORGANISM: Artificial Sequence
226 <220> FEATURE:
227 <223> OTHER INFORMATION: PCR Primer
228 <400> SEQUENCE: 4
229 ggggtttttt ggggtttttt ggggtttttt ggggtttttt ggggtttttt ggggtttttt ggggtttttt 20
230 <210> SEQ ID NO: 5
231 <211> LENGTH: 19
232 <212> TYPE: DNA
233 <213> ORGANISM: Artificial Sequence
234 <220> FEATURE:
235 <223> OTHER INFORMATION: PCR Primer
236 <400> SEQUENCE: 5
237 ggggtttttt ggggtttttt ggggtttttt ggggtttttt ggggtttttt ggggtttttt ggggtttttt 14

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## RAW SEQUENCE LISTING

PATENT APPLICATION: PCT/US02/36692

DATE: 11/02/2002

TIME: 15:17:58

Input File : A:\SEQUENCE.txt

Output File: N:\CRF4\12022002\PU36692.raw

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244 <210> SEQ ID NO: 6
245 <211> LENGTH: 27
246 <212> TYPE: DNA
247 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:
249 <223> OTHER INFORMATION: PCR Probe
250 <400> SEQUENCE: 6
251 atggaacatg tggcaaccaa gaactaca                27
262 <210> SEQ ID NO: 7
263 <211> LENGTH: 19
264 <212> TYPE: DNA
265 <213> ORGANISM: Artificial Sequence
266 <220> FEATURE:
267 <223> OTHER INFORMATION: PCR Primer
271 <400> SEQUENCE: 7
272 gaagctgagc gtgggagtc                19
275 <210> SEQ ID NO: 8
276 <211> LENGTH: 20
277 <212> TYPE: DNA
278 <213> ORGANISM: Artificial Sequence
279 <220> FEATURE:
282 <223> OTHER INFORMATION: PCR Primer
284 <400> SEQUENCE: 8
285 aaagatgctg atgggatttc                20
288 <210> SEQ ID NO: 9
289 <211> LENGTH: 20
290 <212> TYPE: DNA
291 <213> ORGANISM: Artificial Sequence
292 <220> FEATURE:
295 <223> OTHER INFORMATION: PCR Probe
296 <400> SEQUENCE: 9
298 aaagcttcac gttctcagcc                20
301 <210> SEQ ID NO: 10
302 <211> LENGTH: 77
303 <212> TYPE: DNA
304 <213> ORGANISM: Homo sapiens
306 <220> FEATURE:
309 <400> SEQUENCE: 10
310 ctgcttgcca aaaggcgcca gggagacgt gtggcgaggg agggaggaac agcttgcca    60
312 cccggggccc ggaccag                77
315 <210> SEQ ID NO: 11
316 <211> LENGTH: 121
317 <212> TYPE: DNA
318 <213> ORGANISM: Homo sapiens
320 <220> FEATURE:
323 <400> SEQUENCE: 11
324 ctctctgaa ctagccaga tggaggaga aaagaaatc agctctct ctctagaaatc    60
326 tggagggccc ggtgctcatt ctctgctta ctgctctaa tggcttacc ctctctctg    120
328 g                121

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## VERIFICATION SUMMARY

PATENT APPLICATION: PCT/US02/36692

DATE: 12/01/2002

TIME: 15:17:59

Input Set : A:\SEQUENCE.txt

Output Set : N:\CRF4\12022002\PU36692.raw

L:0 M:2010: Current Application Number differs, Replaced Current Application ID

L:1 M:2010: Current Filing Date differs, Replaced Current Filing Date